

SCOPE OF SERVICES

The County is seeking quotes for the purchase of two (2) 100 KW Generators with light sets for the Lake County Department of Public Works – Road Operations Division.

The 100 KW Generators with light sets shall meet all applicable requirements of the American National Standard Institute (ANSI) Safety Standard as required by the Occupational Safety and Health Administration (OSHA) at the time of manufacture.

Awarded contractor shall provide on-site operator and mechanic training upon delivery of generators.

The County will not accept prototype equipment. The equipment shall be built for the U.S. Market and sold or leased by a factory-authorized dealer.

The equipment proposed on this request shall be the manufacturer's standard equipment with no alterations. The County will not lease or purchase altered equipment or custom designed equipment unless expressly provided for in this proposal document.

The contractor shall furnish all tools and equipment (if necessary) for normal field adjustment of the awarded equipment. Prices for the foregoing shall be included in the proposal price.

Description: The following description covers the requirements for a 100 KW Generators with light set similar or equal to a Baldor TS130T, Caterpillar XQ100, Tradewinds TP100, or Wacker G70 with light set attached.

**Please mark if required
specifications are met by checking
the appropriate line.**

1.0 General (Weight, Dimensions, Capacities)

1.01 Machine Make

Make: _____

1.02 Machine Model

Model: _____

1.03 Standby duty rated at 100kwe, 125kva, 8 power factor

Y ____ N ____

1.04 Prime power duty rating 90kwe, 112kva, 0.8 power factor

Y ____ N ____

1.05 Main Breaker equipped with shunt trip

Y ____ N ____

1.06 Generator end shall be Direct Coupled to engine flywheel with
a flexible coupling

Y ____ N ____

1.07 Generator shall meet performance class G3 of IEC

Y ____ N ____

2.0 Engine

2.01 Four (4) Cylinder, water cooler, 1800 rpm, diesel engine

Y ____ N ____

2.02 Current emission compliant diesel engine

Y ____ N ____

2.03 Spin on fuel and oil filters

Y ____ N ____

3.0 Voltage Change Over Switch & Distribution

3.01 Manual 3 position voltage change over switch to select each
voltage as specified when unit is not running

Y ____ N ____

3.02 1ph 120/240, 3ph 120/240, 3ph 120/208 and 3ph 277/480

Y ____ N ____

3.03 Five Point Connection (for ease of connection of load leads)

Y ____ N ____

3.04 One 50 amp, 120/240 vac, 1 ph, twist lock receptacle

Y ____ N ____

3.05 One 30 amp, 120/240 vac, 1 ph, RV type receptacle

Y ____ N ____

3.06 Two 20 amp, 120/240 vac, 1 ph, duplex receptacle	Y ____ N ____
3.07 Two 20 amp, 120/240 vac, 1 ph, duplex GFI receptacle	Y ____ N ____
3.08 Each receptacle protected by an individual circuit breaker	Y ____ N ____
3.09 Receptacle shall be provided to power both jacket water heater and on board battery charger	Y ____ N ____
3.10 Two thumb screw type connection points provided for remote auto start	Y ____ N ____
4.0 Controls	
4.01 Solid state, microprocessor based generator controls	Y ____ N ____
4.02 Controls shall provide all operating, monitoring and control functions for the generator set	Y ____ N ____
4.03 Controls shall provide for auto start /stop functions	Y ____ N ____
4.04 Emergency Stop Push Button will be installed	Y ____ N ____
4.05 Voltage adjustment shall be provided in the panel (to adjust voltage in all voltage positions)	Y ____ N ____
4.06 Switch shall be provided in the panel to turn all power off in the panel if not being used	Y ____ N ____
5.0 Enclosure	
5.01 Complete diesel engine generator set including control panel, engine starting batteries and fuel tank shall be enclosed in a factory assembled weather protective, sound attenuated enclosure	Y ____ N ____
5.02 Sound attenuated enclosure noise level NOT to exceed 73 – 75 dba @ 21 feet	Y ____ N ____
5.03 Oil and water drain lines shall be provided and extend to the enclosure wall with valves for easy service	Y ____ N ____
5.04 Critical grade silencer	Y ____ N ____
5.05 Companion flanges	Y ____ N ____
5.06 Flexible exhaust-flex	Y ____ N ____
5.07 Keyed alike lockable doors	Y ____ N ____
6.0 In Base Fuel Tank Trailer	
6.01 Trailer shall be DOT approved	Y ____ N ____
6.02 Proper Serial Number Data Plate indicating weight capacity minimum of 7,500 lbs	Y ____ N ____
6.03 Have dual axles with torque springs to reduce overall height	Y ____ N ____
6.04 Standard 7 or 5p pin vehicle hitch receiver to be supplied	Y ____ N ____
6.05 Two rear level jacks with sand shoes and front leveling jack	Y ____ N ____
6.06 Hydraulic brakes	Y ____ N ____
6.07 All necessary safety equipment to include but not be limited to an adjustable and removable Pintle hitch, 30 inch safety chains, fenders, lights per DOT, and break away cable	Y ____ N ____
6.08 Tires will be minimum load range type “D” (8 ply rating) with matching steel rims (Rims are to be finish painted)	Y ____ N ____
6.09 Minimum 8 hour capacity at 75% load rating to determine single wall tank size	Y ____ N ____
6.10 Mechanical fuel gauge	Y ____ N ____
6.11 Low fuel level alarm	Y ____ N ____

- 6.12 All necessary vents and caps provided along with suction, return, and drain points Y ____ N ____
- 7.0 Battery Charger**
- 7.01 Battery installed in holding container with battery cables Y ____ N ____
- 7.02 Current limiting battery charger to automatically charge batteries Y ____ N ____
- 7.03 Charger shall be dual charge rate with automatic switching to boost rate when required Y ____ N ____
- 7.04 Charger mounted inside generator set package Y ____ N ____
- 7.05 Fully charged battery provided at time of delivery and start up Y ____ N ____
- 8.0 Optional Equipment (Light Set)**
- 8.01 Two (2) 1500 watt, 120 volt, aluminum telescoping lights mounted to the side of portable generator and prewired to load center mounted inside with breaker for each Y ____ N ____
- 9.0 Start Up & Commissioning**
- 9.01 One (1) day start-up including operational test of equipment showing proper connection of cables with safety issues performed by a factory trained technician. The start up technician will instruct personnel how to operate and maintain the equipment in accordance with the manufacturer's requirements. Y ____ N ____
- 10.0 Conditions**
- 10.01 All products shall be new and of current design Y ____ N ____
- 10.02 Initial filling of oil and antifreeze Y ____ N ____
- 10.03 During start-up, the technician will record the following information:
 Operating Voltage (_____)
 Hertz (_____)
 Phase (_____)
 and Connected Load Amperage (_____) Y ____ N ____
- 10.04 Record engine and generator serial numbers Y ____ N ____
- 11.0 Service, Parts, and Operator Manuals, Warranty, Delivery Time**
- 11.01 Provide complete literature and specifications Y ____ N ____
- 11.02 Provide 2 complete sets of operation and maintenance manuals Y ____ N ____
- 11.03 State Warranty Period (including parts and labor) Y ____ N ____
- 11.04 Specified Delivery Time (Not to exceed 120 days) Y ____ N ____ Days ____